

WHAT IS CLAIMED IS:

1. A coding method of image information comprising:
a feature extraction process which quantizes and codes
5 whole image information subjected to coding to extract feature
information;

a coding quantity predicting process which quantizes
and codes the image information, while changing a quantizing
factor based on the feature information, to determine a proper
10 quantizing factor; and

a coding process which utilizes a determined quantizing
factor and quantizes and codes the image information to output
a result as coded output data.

15 2. The coding method according to claim 1, wherein the
coding quantity predicting process comprises:

a factor setting process which sets the quantizing factor
of each frame based on the feature information;

20 an experimental coding process which utilizes a set
quantizing factor and quantizes and codes of the image information
to store result data of coding in a buffer; and

a factor changing process which changes the quantizing
factor of each frame when an overflow or an underflow occurs
in the buffer.

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3. The coding method according to claim 2:

wherein the feature information comprises a coding
quantity of each frame obtained by coding the image information,
and information which specifies scenes constituting the image
30 information;

wherein the experimental coding process has a process
which calculates a weighting value of each frame; and

wherein the factor changing process changes the
quantizing factor, based on the calculated weighting value and

the quantizing factor which is utilized in a previous experimental coding of the frame.

4. A coding program product of image information which
5 makes a computer execute, by executing on the computer:
a feature extraction process which quantizes and codes
whole image information subjected to coding and extracts feature
information;
a coding quantity predicting process which quantizes
10 and codes the image information, while changing a quantizing
factor and determines a proper quantizing factor, based on the
feature information; and
a coding process which utilizes the proper quantizing
factor and quantizes and codes the image information to output
15 a result as coded output data.

5. A coding apparatus of image information comprising:
a quantizing unit which quantizes the image information
by a predetermined quantizing factor;
20 a coding unit which codes quantizing data generated by
the quantizing unit;
a feature extraction unit which quantizes and codes the
whole image information and extracts feature information; and
a coding quantity predicting unit which quantizes and
25 codes the image information, while changing a quantizing factor
and determines a proper quantizing factor, based on the feature
information,
wherein the quantizing unit and the coding unit utilizes
the proper quantizing factor to quantize and code the image
30 information and outputs a result as coded output data.